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Advanced Neutron-Gamma Logging Tool

Problem

INEEL's Radioactive Waste Management Complex remediation project needed to locate and identify chlorine-containing materials in waste pits.

Baseline Technology

Corehole drilling with extensive contamination control to retrieve waste samples for laboratory analysis.

New Technology

The Advanced Neutron-Gamma Logging tool uses a pulsed neutron generator to measure chlorine-to-hydrogen ratios in soil and waste without retrieving contaminated materials.

Comparison

This tool locates and identifies chlorine-containing materials in waste pits without requiring retrieval of samples for laboratory analysis.

Benefits

This tool locates and identifies chlorine-containing materials in buried waste without exposing workers to hazards or generating waste associated with sample retrieval.



ENVIRONMENTAL RESTORATION PROGRAM

Project: ID-ER-107
Radioactive Waste Management Complex Remediation